

AMENDMENT TO THE SPECIFICATION

Please amend the specification paragraph 47 as follows:

FIG. 3 is a simplified diagram of a process device showing another view of the supervisory overlayer 104. In FIG. 3, process device 100 is shown as including a process interface 120, device circuitry 122 and input/output circuitry 124. The process interface 120 can be any mechanical and/or electrical circuitry which is used to couple the process device 100 to the industrial process. For example, the process interface can comprise a sensor such as a pressure sensor, flow sensor, temperature sensor, etc. used to sense process variables of the process. Other types of sensors are used to sense operation of the process device, for example current sensors, voltage sensors, etc. Similarly, process interface 120 can comprise an output stage which couples to a control element, for example an output stage which provides a signal to a valve controller which controls operation of the valve, or can include the final control element itself. The process device interface can comprise any interface with a component of the device, and can include a connection used for other purposes by the device. For example, a connection to a databus by a microprocessor can provide a device interface. The device circuitry 122 in general comprises the electrical circuitry within device 100 which is used to perform the various functions of device 100. For example, the circuitry can be used for measurement or control of the industrial process. The input/output interface 124 is used to couple the process device 100 to an external component of the process control system. In the example shown in FIG. 3, the input/output circuitry 124 couples to a two-wire process control loop 18. Circuitry 124 can be used to send information over loop 18 or receive information from loop 18. In some embodiments, circuitry 124 includes the ability to power all of the circuitry within device 100 with power received over process control loop 18. The supervisory overlayer 104 may couple to one or more of the circuits 120, 122 or 124 as desired. The supervisory overlayer 104 can be implemented in software in a microprocessor, along with any required sensors or circuitry. The microprocessor can be a general microprocessor used to operate process device 100 or a separate microprocessor to execute the supervisory overlayer function. Some or all of the components

which implement supervisory overlayer 104 can be shared with other circuitry within process device 100.